

Practitioner's Docket No. 944-003.084

2133  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of: Bellier et al.

Application No.: 09/875,823

Group No.: 2133

Filed: April 30, 2001

Examiner: Phung M. Chung

For: **METHOD OF TRANSMITTING SIGNALING MESSAGES IN A MOBILE  
TELECOMMUNICATIONS NETWORK**

Mail Stop Non-Fee Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

AMENDMENT TRANSMITTAL

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Technology Center 2100

1. Transmitted herewith is an amendment for this application.

STATUS

2. Applicant is

☐ a small entity. A statement:

☐ is attached.

☐ was already filed.

☒ other than a small entity.

CERTIFICATE OF MAILING/TRANSMISSION UNDER 37 C.F.R. §1.8(a)

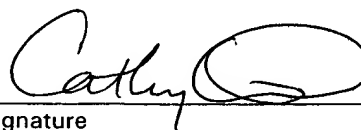
I hereby certify that this correspondence is, on the date shown below, being:

MAILING

☒ deposited with the United States Postal Service with sufficient postage as first-class mail, in an envelope addressed to Mail Stop Non-Fee Amendment, Director of the US Patent & Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450

FACSIMILE

☐ transmitted by facsimile to the U.S. Patent and Trademark Office.

  
Signature

Date: 1.16.04

Cathy Wilcox  
(type or print name of person certifying)

### EXTENSION OF TERM

NOTE: "Extension of Time in Patent Cases (Supplement Amendments) - If a timely and complete response has been filed after a Non-Final Office Action, an extension of time is not required to permit filing and/or entry of an additional amendment after expiration of the shortened statutory period.

If a timely response has been filed after a Final Office Action, an extension of time is required to permit filing and/or entry of a Notice of Appeal or filing and/or entry of an additional amendment after expiration of the shortened statutory period unless the timely-filed response placed the application in condition for allowance. Of course, if a Notice of Appeal has been filed within the shortened statutory period, the period has ceased to run." Notice of December 10, 1985 (1061 O.G. 34-35).

NOTE: See 37 C.F.R. §1.645 for extensions of time in interference proceedings, and 37 C.F.R. §1.550(c) for extensions of time in reexamination proceedings.

3. The proceedings herein are for a patent application and the provisions of 37 C.F.R. §1.136 apply.

(complete (a) or (b), as applicable)

- (a) ☐ Applicant petitions for an extension of time under 37 C.F.R. §1.136 (fees: 37 C.F.R. §1.17(a)(1)-(4)) for the total number of months checked below:

<u>Extension (months)</u>	<u>Fee for other than small entity</u>	<u>Fee for small entity</u>
<input type="checkbox"/> one month	\$ 110.00	\$ 55.00
<input type="checkbox"/> two months	\$ 400.00	\$200.00
<input type="checkbox"/> three months	\$ 920.00	\$460.00
<input type="checkbox"/> four months	\$1,440.00	\$720.00

Fee: \$ \_\_\_\_\_

If an additional extension of time is required, please consider this a petition therefor.

(check and complete the next item, if applicable)

- ☐ An extension for \_\_\_\_\_ months has already been secured. The fee paid therefor of \$ \_\_\_\_\_ is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request \$ \_\_\_\_\_

OR

- (b) ☒ Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

**FEE FOR CLAIMS**

4. The fee for claims (37 C.F.R. § 1.16(b)-(d)) has been calculated as shown below:

(Col. 1)	(Col. 2)	(Col. 3)	SMALL ENTITY			OTHER THAN A SMALL ENTITY	
CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NO. PREVIOUSLY PAID FOR	PRESENT EXTRA	ADDIT. RATE	FEE	OR	ADDIT. RATE	FEE
TOTAL: 23	MINUS 23	= 0	x \$9 =	\$		x \$18 =	\$
INDEP: 3	MINUS 3	= 0	x \$42 =	\$		x \$84 =	\$
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM			+ \$140 = \$			+ \$280 = \$	
			TOTAL ADDL. FEE \$			TOTAL ADDL. FEE \$ 0.00	

WARNING: "After final rejection or action (§1.113) amendments may be made cancelling claims or complying with any requirement of form which has been made." 37 C.F.R. §1.116(a) (emphasis added).

(complete (c) or (d), as applicable)

(c) ☒ No additional fee for claims is required.

OR

(d) ☐ Total additional fee for claims required is \$\_\_\_\_\_.

**FEE PAYMENT**

5. ☐ Attached is a check in the sum of \$\_\_\_\_\_.

☐ Charge Account No. \_\_\_\_\_ the sum of \$\_\_\_\_\_. A duplicate of this transmittal is attached.

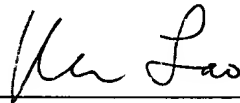
**FEE DEFICIENCY**

NOTE: If there is a fee deficiency and there is no authorization to charge an account, additional fees are necessary to cover the additional time consumed in making up the original deficiency. If the maximum six-month period has expired before the deficiency is noted and corrected, the application is held abandoned. In those instances where authorization to charge is included, processing delays are encountered in returning the papers to the PTO Finance Branch in order to apply these charges prior to action on the cases. Authorization to charge the deposit account for any fee deficiency should be checked. See the Notice of April 7, 1986 (1065 O.G. 31-33).

6. ☒ If any additional extension and/or fee is required, charge Account No. 23-0442

*AND/OR*

☒ If any additional fee for claims is required, charge Account No. 23-0442.



Signature of Practitioner

Reg. No.: 40,061

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Serial No.: 09/845,823 : Examiner: Phung M. Chung

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**RESPONSE TO NON-FINAL OFFICE ACTION (Paper No. 6)**

Sir:

This responds to the Non-Final Office Action, mailed December 18, 2003.

In the patent application, claims 1-23 are pending. In the Office Action, all pending claims are rejected.

At section 2, the Examiner rejects claims 1-4, 6-7, 9 and 13-21 under 35 U.S.C. 103(a) as being unpatentable over *Raith* (U.S. Patent No. 6,498,936). At section 3, claims 5, 8, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Raith* in view of admitted prior art. In rejecting these claims, the Examiner states that *Raith* discloses means for substituting a first error correction/detection code in a block with a shorter second error detection code. However, the Examiner fails to specifically point out where in the specification does *Raith* disclose such means.

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P.O. Box 1450, Alexandria, VA 22313-1450.

  
Cathy Wilcox

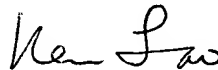
It is respectfully submitted that *Raith* discloses a method of sending PCH messages. In particular, *Raith* disclose error correction coding the entire message in addition to error correction coding the frames of the message (col. 4, lines 27-34; claim 1). By doubly coding the message with error correction coding on the entire message and on the frames separately, long messages can be reliably transmitted using the broadcast channel which is designed for short messages, notwithstanding fading and other problems in the transmission. Using this double error correction coding technique, *Raith* can send messages using a TDMA system that includes a Digital Control CHannel (DCCH) having a short message Service Broadcast Control CHannel (S-BCCH) logical channel (col. 4, lines 54-57). A broadcast channel, as normally understood, is a point-to-multipoint channel for use in one-way transmissions.

In contrast, the claimed invention is concerned with two-way communications between a mobile station and a base transceiver station using a control channel such as a slow associated control channel (SACCH). *Raith* does not disclose substituting a long error correction/detection code in a block with a shorter second error detection code in a control channel for two-way communications. *Raith* does not disclose substituting a long error correction/detection code in a block with a shorter second error detection code in a SACCH channel.

For the foregoing reasons, the claims invention is distinguishable over the cited *Raith* reference.

Early allowance of claims 1-23 is earnestly solicited.

Respectfully submitted,



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